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CLASSIFIED MESSAGE

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INFO

25X1A FILE VR, [REDACTED], DSS2, SECUR4, PPB, (CORS 4), ADDP

25X1A S E C R E T 100830Z CITE [REDACTED] 5062

25X1A [REDACTED] S

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25X1A [REDACTED] ENGINEERS AND FE ENGINEERS CONFERRED WITH [REDACTED] AND A AND E 25X1A

25X1A [REDACTED] ON 90 PERCENT DESIGN OF [REDACTED] AIR CONDITIONING

25X1A AND POWER CHANGES; FOLLOWING IS A SUMMARY OF THE DESIGN AND CHANGES REQUESTED:

1. AIR CONDITIONING: ON BASIS OF GRAND TOTAL HEAT LOAD OF 90 TONS, DESIGN CALLS FOR INSTALLATION OF TWO-ONE HUNDRED TON WATER CHILLER UNITS IN AN EXTENSION OF THE BUILDING EAST OF THE CRYPTO AREA. ONE 19,200 CFM AIR HANDLER (AHU-4) WILL BE LOCATED IN THIS BUILDING AND WILL FEED THRU WALL TO THREE FIFTEEN FOOT LONG BY SIX INCH CONTINUOUS SIDEWALL DIFFUSERS LOCATED JUST BELOW CEILING WITH RETURNS AT FLOOR LEVEL. THIS WILL SUPPLY COOLING FOR ENTIRE CRYPTO AREA. A SECOND 10,800 CFM AIR HANDLER (AHU-1) WILL BE INSTALLED IN PLACE OF PRESENT FRONT AIR CONDITIONER AND WILL HANDLE ALL OF FRONT AIR CONDITIONERS LOAD WITH EXCEPTION OF CRYPTO AREA. A THIRD 7,500 CFM AIR HANDLER (AHU-3) WILL REPLACE PRESENT MAX AIR CONDITIONING EVAPORATOR/AIR HANDLER LOCATED NEXT TO SCREEN ROOM. PRESENT REAR AIR CONDITIONER WILL BE RETAINED AS AN OPERATIONAL SYSTEM WITH PROVISIONS MADE FOR ITS

C/REG

DML 5/19/67

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25X1A PAGE 2 [REDACTED] 062 S E C R E T ~~SECRET~~

REPLACEMENT WITH AN 11,900 CFM AIR HANDLER (AHU-2) WHEN IT BECOMES NECESSARY. CHILLED WATER LINES FROM THE NEW CHILLER WILL BE TAPPED INTO EXISTING CHILLED WATER LINES TO DISC FILE HEAT EXCHANGERS AND PRESENT TWO WATER CHILLERS WILL REVERT TO BACKUP STATUS. DUCT SYSTEMS FOR FRONT AND REAR SYSTEMS WILL BE INTERCONNECTED BY A DUCT ABOVE THE HALLWAY BETWEEN RADIO CONTROL AND CRYPTO AREAS. ALTHOUGH NUMBER OF IMPROVEMENTS COULD BE MADE, EXISTING DUCTWORK WILL REMAIN ESSENTIALLY AS IS. EACH AIR HANDLER WILL BE PROVIDED BACKUP FROM ONE OR TWO OF OTHERS, THERE WILL BE SUFFICIENT TONNAGE FOR ONE CHILLER TO REMAIN OFF ALL THE TIME. CURRENT WORKING ESTIMATE (CWE) FOR SYSTEM IS [REDACTED] 25X1A

25X1A [REDACTED] AGREED THAT FOLLOWING CHANGES SHOULD BE MADE: REDUCE SIZE OF CHILLERS TO APPROX 65 TONS EACH AND MAKE PROVISIONS FOR INSTALLATION OF A THIRD AT LATER DATE IF REQUIRED. AS LONG AS REAR A/C IS OPERATIONAL, ONLY ONE OF THESE WOULD BE OPERATED AT A TIME. WHEN REAR A/C IS REPLACED TWO UNITS WOULD BE OPERATED IN PARALLEL. IF ONE FAILED, OTHER COULD HANDLE 50 TON CRITICAL LOAD. AT THAT TIME, A DECISION WOULD BE MADE WHETHER TO INSTALL A THIRD UNIT ON BASIS OF REQUIREMENTS AT THAT TIME AND RELIABILITY OF FIRST TWO UNITS. BY REDUCING

~~SECRET~~

25X1A PAGE 3 [REDACTED] 5062 SECRET

~~SECRET~~

SIZE OF CHILLERS, MONEY WILL BE LEFT TO FURTHER IMPROVE DUCT WORK AND ALLOW FOR UNFORSEEN CONTINGENCIES, AS WELL AS REDUCING AMOUNT OF INSTALLED TONNAGE TO A MORE REASONABLE FIGURE AND REDUCING POWER REQUIREMENTS. PROVIDE THERMOSTATICALLY CONTROLLED REHEATERS TO ACCOMMODATE FOR CHANGING HEAT LOADS IN FRONT ADMIN OFFICE AREA. ADD A RAPID WATER FILL CAPABILITY TO CHILLED WATER UNITS. REDESIGN DUCT WORK TO BACK ROOM FOR GREATER COOLING, TO BE

25X1A PROCURED AND INSTALLED BY [REDACTED] ENSURE THAT AHU-3 AND CHILLED WATER PUMPS ARE SUFFICIENT TO HANDLE HIGH STATIC PRESSURES IN MAX ROOM AND DISC FILE HEAT EXCHANGERS.

25X1A [REDACTED] HAS DIRECTED A&E TO PROCEED TO 100 PER CENT

25X1A DRAWINGS WITHIN ONE WEEK AND [REDACTED] WILL REVIEW AND ADVERTISE. DESIGN IS MORE THAN ADEQUATE IF LESS THAN IDEAL, BUT IN THE TIME AVAILABLE PRIOR TO END OF FY-67, DISPASSIONATE DESIGN AND REVIEW IS NOT POSSIBLE. 100 PERCENT DESIGN DRAWINGS WILL BE SENT TO HQS WHEN COMPLETED.

2. POWER HOUSE: A 12' BY 24' ADDITION TO SOUTH END OF POWER HOUSE WILL BE BUILT TO HOUSE SWITCHGEAR, AND REAR OF PRESENT UPS AREA WILL BE EXTENDED 6' TO HOUSE NEW UPS. TRENCHES WILL BE DUG IN FLOOR FOR NEW POWER CABLING AND HANDHOLE

~~SECRET~~

25X1A PAGE 4 [REDACTED] 5062 S E C R E T

~~SECRET~~

MADE IN FRONT OF ADDITION FOR NEW CONDUIT RUNS TO RECEIVER BLDG.  
NEW TRANSFORMER PAD WILL BE CONSTRUCTED TO EAST OF ADDITION  
AND DUMMY LOAD WILL BE PLACED BETWEEN ADDITION AND PAD.  
CHANGES FROM HQS DRAWING WERE MADE TO ALLOW FOR INSTALLATION  
AND CABLING OF SWITCHGEAR PRIOR TO REMOVING ANY PRESENT  
EMERGENCY POWER CAPABILITY. HOIST OVER UPS WAS FELT NOT TO BE  
ESSENTIAL AND COULD NOT BE BUILT WITHIN FUNDS AVAILABLE.  
CONSTRUCTION SCHEDULE APPEARS TO REQUIRE THREE SERIOUS OUTAGES.  
FIRST WHEN UTILITY POWER DISTRIBUTION IS CHANGED WILL REQUIRE  
ABOUT AN HOUR. AIR CONDITIONING SYSTEMS WILL BE OUT AT THAT TIME,  
AND ALTHOUGH TORN TAPE OPERATION COULD PROBABLY BE MAINTAINED,  
MAX OPERATION IS DOUBTFUL. SECOND, WHEN MAX PORTION OF TECH  
POWER DISTRIBUTION IS CHANGED, REQUIRING AN HOUR. AGAIN, TORN TAPE  
OPERATION COULD PROBABLY BE MAINTAINED. THIRD, WHEN TECH POWER  
DISTRIBUTION FOR CRYPTO, TELETYPE AND RCVR IS CHANGED, REQUIRING  
FOUR HOURS. MAX COULD BE UP DURING THIS TIME, AND IT MIGHT BE POSSIBLE  
TO TEMPORARILY WIRE SOME OF OTHER EQUIPMENT TO UTILITY POWER.  
SEVERAL OTHER SHORT AND LESS SERIOUS OUTAGES WILL ALSO BE REQUIRED.

25X1A

5X1A

[REDACTED]  
AVAILABLE. SINCE [REDACTED] CANNOT PROCEED TO ADVERTISES UNTIL CWE IS WITHIN

~~SECRET~~

**SECRET**

25X1A PAGE 5 [REDACTED] 5062

AVAILABLE FUNDS, WE AGREE TO LIST 13.8KV/277-480V TRANSFORMERS AS

25X1A GFE, [REDACTED]

TO PROJECT FUNDS SO THAT THESE MAY BE INCLUDED IN CONTRACT, OR  
THEY BE ORDERED AS GFE.

A&E INFORMED US THAT WITH NEW AIR CONDITIONING AND WAREHOUSE,  
TOTAL STATION LOAD WILL BE MORE THAN 300KVA MAKING 120/208V TRANSFORMER  
BANK INADEQUATE TO HANDLE ENTIRE STATION. REQUEST THAT FUNDS  
BE PROVIDED TO CHANGE THIS TRANSFORMER BANK TO 500 KW.

3. REQUEST CONCURRENCE.

S E C R E T

BT

**SECRET**

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